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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/404,705	04,705 09/23/1999		MUNEHIRO IKEDA	12983	8701	
23389	7590	06/18/2003				
		JRPHY & PRES	EXAM	EXAMINER		
400 GARDE			DUONG	DUONG, TAI V		
GARDEN C	ITY, NY	11530				
				ART UNIT	PAPER NUMBER	
			2871			
			DATE MAILED: 06/18/2003	DATE MAILED: 06/18/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No	. ,	Applicant(s)	XX				
•	_	09/404,705		IKEDA, MUNEHIRO	D				
	Office Action Summary	Examiner		Art Unit					
		TAI DUONG		2871					
	The MAILING DATE of this communication a	ppears on the cove	er sheet with the c	orrespondence add	iress				
Period for	Reply								
THE M - Extens after S - If the p - If NO p - Failure	PRTENED STATUTORY PERIOD FOR REP IAILING DATE OF THIS COMMUNICATION is consorted in the may be available under the provisions of 37 CFR 1 (X (6) MONTHS from the mailing date of this communication. It is increased for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perions to reply within the set or extended period for reply will, by statuply received by the Office later than three months after the mail patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, how by within the statutory m d will apply and will expir	wever, may a reply be tin dinimum of thirty (30) day e SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	mmunication,				
1) 🖂	Responsive to communication(s) filed on 24	4 March 2003 .							
.,∠⊒ 2a)⊠	-	This action is non-	final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
	on of Claims								
	Claim(s) <u>1,3-5,7-9,11-13 and 15-28</u> is/are p								
4a) Of the above claim(s) is/are withdrawn from consideration.									
_	5)⊠ Claim(s) <u>9,11-13,15 and 16</u> is/are allowed.								
	6)⊠ Claim(s) <u>1, 3-5, 7, 8 and 17-28</u> is/are rejected.								
, —	Claim(s) is/are objected to.								
	Claim(s) are subject to restriction and	d/or election requi	rement.						
1	on Papers	iner							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) ☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
ء ا	n) ☐ The translation of the foreign language Acknowledgment is made of a claim for dom	provisional applic	ation has been re	eceived.					
Attachmer									
1) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No	5)	Notice of Informa	ary (PTO-413) Paper N al Patent Application (P	o(s) TO-152)				

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The objection to the drawings and the specification, and the rejection of claims 1, 3-5, 7-9, 11-13, 15 and 16 under 35 USC 112 are withdrawn in view of Applicant's amendments and remarks.

Claims 19, 22, 25 and 28 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 19, 22, 25 and 28 reverse the steps set forth in the independent claim from which they depend. Step (e) of independent claims 17, 20, 23 and 26 recite the insulating film being formed on or covered the pixel electrode while dependent claims 19, 22, 25 and 28 recite the pixel electrodes being formed on the insulating film.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 17, 20, 23 and 26 are inconsistent with the specification and the drawings because Figs. 13 and 14 disclose that the pixel edge section is formed at the same time with the signal lines and before the pixel electrode, not after the signal lines and at the same time or after the pixel electrode as recited in step (d). Claims 17, 20, 23 and 26 are indefinite because the recited limitation "a first space between said pixel edge

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section and said first signal line is equal to a second space between said pixel edge section and said second signal line" can only be achieved after the pixel edge section being formed. In other words, effects or consequences cannot occur before causes. The same issue is also applied to the cut-out portion of the pixel electrode recited in step (c) of claim 23. In addition, it is unclear what the difference between the method of claim 20 and that of claim 26 except the preambles. Lastly, it is unclear why the preamble of claim 26 recites the bending portion but the step (c) recites the projecting portion. The remaining claims are also rejected since they depend on the indefinite claims.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Sukegawa et al.

Amended claims 1 and 5 additionally recite "said pixel electrode includes a pixel edge section having been exposed to light, at a periphery thereof". This limitation according to the specification is a product-by-process limitation (specification, page 16, lines 20-22; page 19, lines 22-28). However, it has been recognized that "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the

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same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process.". *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

Note Figs. 8 and 9 which identically disclose the claimed LCD device comprising the first and second spaces L0 being equal when the space L0 is the distance between the first (left 18) or second signal line (right 18) and the pixel edge section (18a, 18a'). Also, the pixel electrode 19 is formed on a layer 14 on which the first and second signal lines are also formed. Note the projection portion 17d extending toward the pixel electrode 19. Lastly, it is noted that the pixel edge section of Sukegawa is also inherently exposed to light due to the patterning of the pixel edge section by photo etching (col. 1, lines 26-30).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sukegawa et al in view of Yao et al.

The only difference between the above-mentioned device of Sukegawa and that of the instant claims is the pixel electrode 19 being formed on an insulating layer above the signal lines. Yao et al disclose that it was known to form the pixel electrode on an insulating layer above the signal lines for reducing the driving voltage (col. 2, lines 7-10). Thus, it would have been obvious to a person of ordinary skill in the art to form the

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pixel electrode on an insulating layer above the signal lines in the device of Sukegawa for reducing the driving voltage, as disclosed by Yao et al.

Claims 17-28 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Claims 17, 20, 23 and 26 are allowable over Sukegawa et because none of the prior art discloses or suggests the step of forming the pixel edge section after the signal lines, at the same time of forming the pixel electrode or after the pixel electrode, as recited in step (d) of the claims.

Claims 9, 11-13, 15 and 16 are allowable for the same reasons set forth in the last Office action.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication should be directed to Tai Duong at telephone number 703 308-4873.

06/03

KENNETH PARKER
PRIMARY EXAMINER